LArSoft

	2020-10				2020-11				2020-12					2021-1				2021-2				2021-3			
	41	42	43	44	45	46	47	48	49	50	51	52	53	1	2	3	4	5	6	7	8	9	10	11	12
LArSoft	**LArSoft**																								
Introducing IDs for photon detector geometry	**Assigned**																								
recob::PCAxis uses nested vector to represent (...)	**Assigned**																								
Pedestal passed by mutable reference in raw.cxx (...)	**Resolved**																								
raw.cxx Uncompress gives wrong results for (...)	**Assigned**																								
AlgoThreshold_test needs to be fixed	**Assigned**																								
memory access error in larana/CosmicRemoval/BeamFlashTrackMatchTaggerAlg.cxx	**Assigned**																								
Have a uniform way to identify decay/stopping (...)	**Assigned**																								
TPC Active Volume	**Resolved**																								
Provide a better way to simulate non-standard (...)	**Assigned**																								
Remove unused code for optical and shower (...)	**Assigned**																								
FLUKA interface with LArSoft	**Assigned**																								
Refactoring LArG4	**Resolved 99%**																								
Finish documentation for LArG4 Restructure	**Resolved**																								
Include paths in FHiCL include directives	**Accepted**																								
Talk to Pandora about exporting their Pandora (...)	**Assigned**																								
Memory errors and leaks	**Assigned**																								
PhotonVisibilityService should be factorised	**Accepted**																								
Lack of activating the Geant4 visualization (...)	**Assigned**																								
larpandora repository - history includes (...)	**Assigned**																								
MCRecoPart uses non-portable coordinate system	**Resolved**																								
Memory errors and leaks	**Assigned**																								
Conflict between DUNE and MicroBooNE code	**Resolved**																								
Support detectors with drift direction different (...)	**Assigned**																								
Update event display to support arbitrary (...)	**Assigned**																								
Verify that the wire and optical calibration (...)	**Assigned**																								
Update PMA to support any drift direction (...)	**Assigned**																								
LArG4 MCParticle hierarchy information	**Resolved**																								

Issue	Status
MARLEYGen module fails to use loaded nuclear (...)	Resolved
OpFlashAlg incompatible with multi-TPC detectors	Assigned
Migrating LArSoft to SPACK build system	Assigned
Remove legacy data members from recob::Track	Assigned
Update the reconstruction algorithms to support (...)	Assigned
Add geometry tests in the integration test	Assigned
Provide module-independent ionization transportation (...)	Assigned
Backtracker fails on corsika in-time MC	Assigned
problems using feature/dgg_lightprop	Resolved
Cannot run g4 in argoneut simulation	Resolved
Memory deallocation error running MicroBooNE (...)	Resolved
Remove DUNE-specific code from GeometryGeo	Resolved
Zero length steps during LArG4	Resolved
Floating Point Exceptions	Assigned
floating point divide by zero in tca:MCSMom	Resolved
Floating point divide by zero in TrajClusterAlg::UpdateTraj	Resolved
Floating point divide by zero in ClusterParamsAlg::RefineDirection	Assigned
Floating point divide by zero in EMShowerAlg.cxx	Assigned
Update wiki pages to reflect the new repository (...)	Accepted
Space Charge Effects (SCE) can shift the (...)	Accepted
Create an example about how to produce a (...)	Assigned
create an art example	Assigned
create a gallery example	Assigned
'Global wire' coordinate within LArSoft geometry	Assigned
Add geometry infrastructure for support (...)	Feedback
Design and implement global wire coordinate (...)	Assigned
environment variable to ctskelgen	Assigned
Large memory usage in SpacePointSolver for (...)	Assigned
Make Doxygen show full paths for header #include (...)	Assigned
Fix event display so that hits associated (...)	Assigned
MARLEYHelper fails to load ROOT-based neutrino (...)	Resolved
Vectorization of LArSoft Code	Assigned
setting up and running LArSoft on laptop (...)	Assigned
Investigate potential areas where vectorization (...)	Assigned

Preliminary vectorization tests and (...)	**Assigned**
Segmentation fault when MergeWithinTPC "on"	**Assigned**
problem with the debug build of larreco on (...)	**Assigned**
lariov::SIOVChannelStatusProvider depends (...)	**Assigned**
Need of update translation of GENIE interaction (...)	**Work in progress**
Potential Lack of Simulation of Recoil Nuclei (...)	**Assigned**
An exception occurs in the HitRefinerAssociator (...)	**Accepted**
fhicl options mismatch in lareventdisplay	**Feedback**
Names associated to pdg codes in Style.cxx (...)	**Feedback**
Inconsistent documentation of geo::GeometryCore::NearestWireID() (...)	**Assigned**
python tools	**Assigned**
reconsider the doxygen build	**Assigned**
Inconsistent information in GENIE MCTruth (...)	**Accepted**
Have raw::RawDigit report their time reference (...)	**Assigned**
Redesign of the timing associated to the (...)	**Assigned**
detinfo::DetectorClocksStandard::ExternalClock() (...)	**Assigned**
new warning from gcc 6.4.0 in larreco TrackFinder	**Resolved**
Failure of FindManyInChainP when the associated (...)	**Accepted**
Track length based only on ValidPoints (i.e. (...)	**Assigned**
Plan for Event Display	**Resolved**
larsoft-v06_70_00 unable to run larsoft event (...)	**Resolved**
Selective loading of detector data	**Assigned**
Re-architecture of art services in LArSoft (...)	**Assigned**
SingleGen: handle negative momentum values	**Assigned**
Pixel-detectors within LArSoft.	**Assigned**
Hit finding at the edge of a waveform gives (...)	**Feedback**
EMShowerAlg requires Backtracker service (...)	**Assigned**
Move initialisation of CorsikaGen from constructor (...)	**Accepted**
Workaround for Clang bug on array initialisation	**Accepted**
Workaround for GenVector classes not being (...)	**Accepted**
Restore fuzzyCluster to a reasonable memory (...)	**Accepted**
building larwirecell with c2	**Resolved**
Restore tensorflow-dependent code disabled (...)	**Assigned**
sam_web_client, python, SLF7, and larsoft (...)	**Feedback**

Overload BackTracker HitToTrackIds to accept (...)	Assigned
Create internal implimentation of ParticleList (...)	Feedback
SimpleBoundary() should be moved from DetectorProperties (...)	Under Discussion
Documentation of momentum calculator not (...)	Assigned
OSX Builds take an extraordinary amount of (...)	Assigned
Make Qt and PyQt 4/5 official ups products	Assigned
Update list of external packages used in (...)	Assigned
Put code LArSoft repositories under Apache (...)	Assigned
building larsoft with e17	Resolved
Update nuwro version	Assigned
Bug in ISCalcSeparate::EFieldAtStep	Resolved
PhotonBackTracker OpFlash Matching Prep is (...)	Assigned
GenieGen module requires a cryostat in the (...)	Feedback
Bug in Fiducial Volume Definition in Larsim	Resolved
Update LArSoft infrastructure for GENIE v3.0.2	Resolved
larsim/EventGenerator/GENIE/GENIEGen_module.cc (...)	Assigned
Data overlay infrastructure for LArSoft	Accepted
LArPandora - ProtoDUNEBeamEvent	Assigned
Inconsistent location of wire plane reported (...)	Feedback
Tons of messages for background simulations.	Feedback
Provide a LArSoft geometry example working (...)	Assigned
Remove deprecated getIf() members from data (...)	Feedback
Upgrade PMAlg algorithms for thread safety	Assigned
Make GausHitFinder's dependence on RawDigit (...)	Resolved
Make IsRealData consistent across backtracking (...)	Assigned
Non-standard SpaceCharge interface	Feedback
Update wiki page for new directory structure	Assigned
trtis_clients and tensorflow interfaces need (...)	Assigned
Unusually long run time for first lar command (...)	Assigned
Outdated Wiki Instructions for creating indirection (...)	Assigned
Reproducible events in the refactored LArG4	Resolved
Fix Geometry service feature reloading the (...)	Work in progress
Wrong position of reflective foil on OpFastScintillation (...)	Under Discussion
MRB does not initialise GitFlow	Assigned

Reintroduce FinalStateSelectFilter to LArEvt	**Feedback**
Scintillation visibility by semi-analytic (...)	**Accepted**
LibTorch v1.5.1 efficiency	**Feedback**
Opposite channel numbering sorting for OpDets	**Feedback**
It is possible to specify inconsistent GDMLs (...)	**Assigned**
Calorimetry module replacement	**Assigned**
Help to get mrbslp working when software (...)	**New**
LArSoft - v06_69_00	**v06_69_00 100%**
Trajcluster segfault	**Resolved**
LArSoft - 2017-3-quarter	
Provide a tool to facilitate the creation (...)	**Resolved**
LArSoft - 2017-4-quarter	
Decay products in pandora do not start (...)	**Accepted**
Profiling LArSoft	**Assigned**
LArSoft - 2018-2-quarter	
Function to return a list of compatible (...)	**Under Discussion**
LArSoft - 2018-3-quarter	
Establish a standard way to represent (...)	**Accepted**
LArSoft - 2019-1-quarter	
Load geometry from ROOT file instead (...)	**Accepted**
Add a compact representation for the (...)	**Accepted**
review typedef cryo_tpc_view_hitmap	**Accepted**
Phase 3 Tracking Data Product	**Accepted**
Provide an interface for access (...)	**Accepted**
Design an interface for access (...)	**Accepted**
Pointless __GCCXML__ in LArSoft data (...)	**Accepted**
LArSoft - develop/HEAD	
TStreamer Error While converting old (...)	**Accepted**
simultaneous use of auxdetgeometry service (...)	**Feedback**
ArgoNeuT code	**ArgoNeuT code**
ArgoNeuT uses the existing lifetime (...)	**Resolved**
larwirecell	**larwirecell**
WireCell::Waveform::percentile throws (...)	**New**
uBooNE code	**uBooNE code**

Add standard fcl configurations and (...)	**New**
Experiment-independent access to pedestals (...)	**Assigned 50%**
Experiment-independent access to database (...)	**New**
Experiment-independent channel filter (...)	**New**
Outdated specification for data product (...)	**New**
RootOutput and fileProperties	**New**
UBOpReadoutMap bugs	**New**
SpaceChargeService service is configured (...)	**New**
SimWireMicroBooNE results are not reproducible	**New**
Test PropTest uses non-reproducible (...)	**New**
Hits data product size change in continuous (...)	**Resolved**
Verify the aggregation criteria for (...)	**New**
Uboonecode v08_00_00_11	**New**
Uboonecode v08_00_00_13a	**New**
MEC dial in GENIE reweight	**Assigned**
uBAna	**uBAna**
NTupleInterface ignores fGPhaseSpace (...)	**New**